

FIGURE 1A
SHEET 1 OF 11

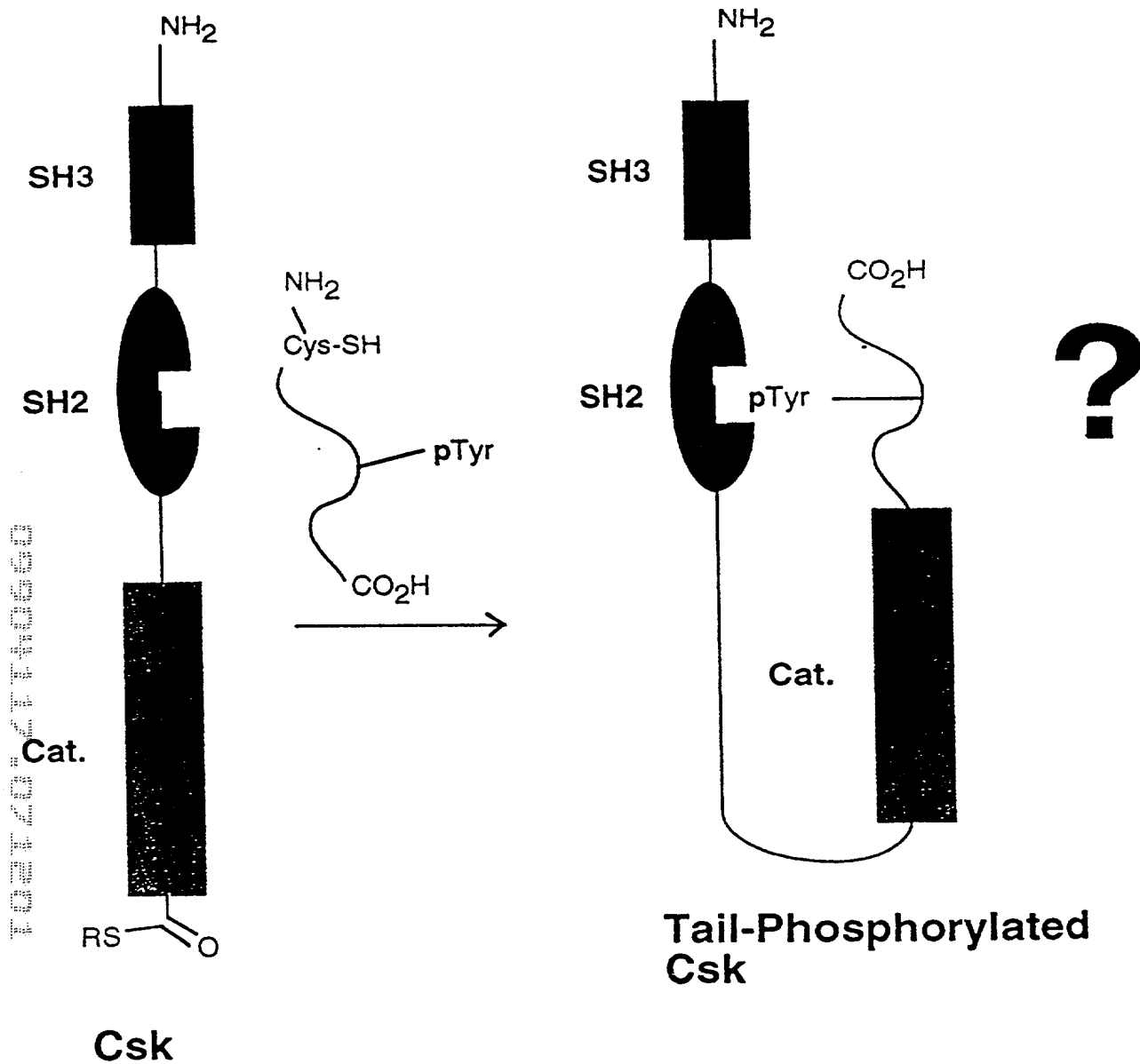
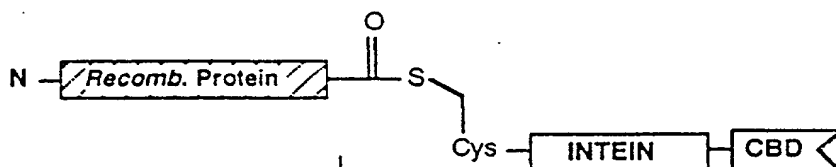


FIGURE 1B
SHEET 2 OF 11

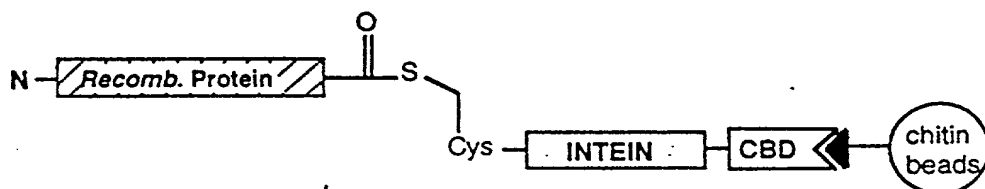
Clone Gene into Vector

1. Express



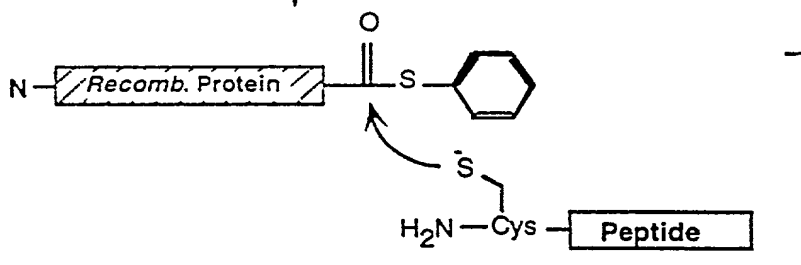
2. Affinity Purification

contaminants



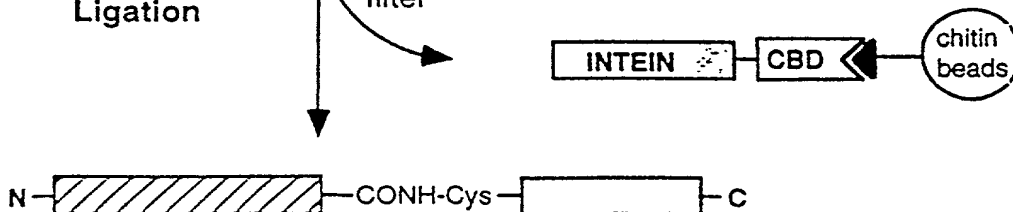
3. Transthio-esterification

synthetic peptide + thiophenol, pH 7



4. Native Chemical Ligation

filter



Semi-Synthetic Protein

FIGURE 2A
SHEET 3 OF 11

LANES 1 2 3 4
↑ ↑ ↑ ↑

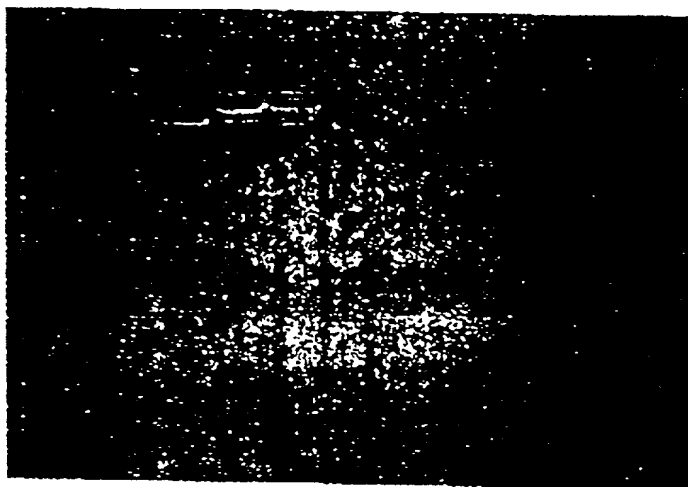


FIGURE 2B
SHEET 4 OF 11

The figure displays three mass spectra plots, each showing intensity (ops) on the y-axis versus mass-to-charge ratio (m/z, amu) on the x-axis. The x-axis for all plots ranges from approximately 48,000 to 56,000 amu, with major tick marks at 50,000, 52,000, and 54,000.

- Top Plot:** Labeled "Csk". The y-axis ranges from 0 to 14,000 ops. A prominent peak is observed at 50,682 Da, reaching an intensity of approximately 14,000 ops.
- Middle Plot:** Labeled "Csk-[CONH]-peptide". The y-axis ranges from 0 to 3,000 ops. A prominent peak is observed at 52,547 Da, reaching an intensity of approximately 3,000 ops.
- Bottom Plot:** Labeled "Csk-[CONH]-phosphopeptide". The y-axis ranges from 0 to 1,400 ops. A prominent peak is observed at 52,629 Da, reaching an intensity of approximately 1,400 ops.

FIGURE 2C
SHEET 5 OF 11

FOOTAGE



1 2

A



1 2

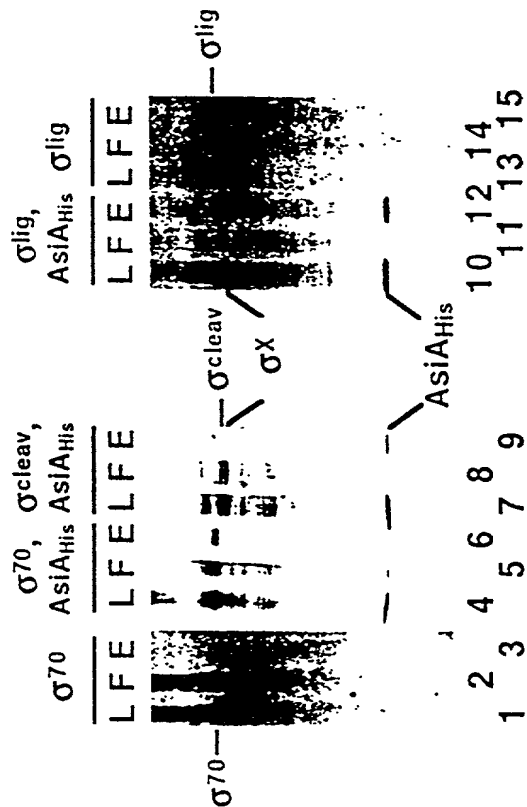
B

FIGURE 3
SHEET 6 OF 11

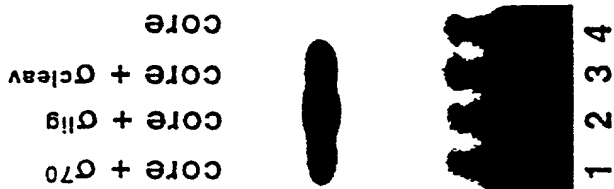
1 2 3 4

FIGURE 4
SHEET 7 OF 11

A.



B.



C.



FIGURE 5
SHEET 8 OF 11

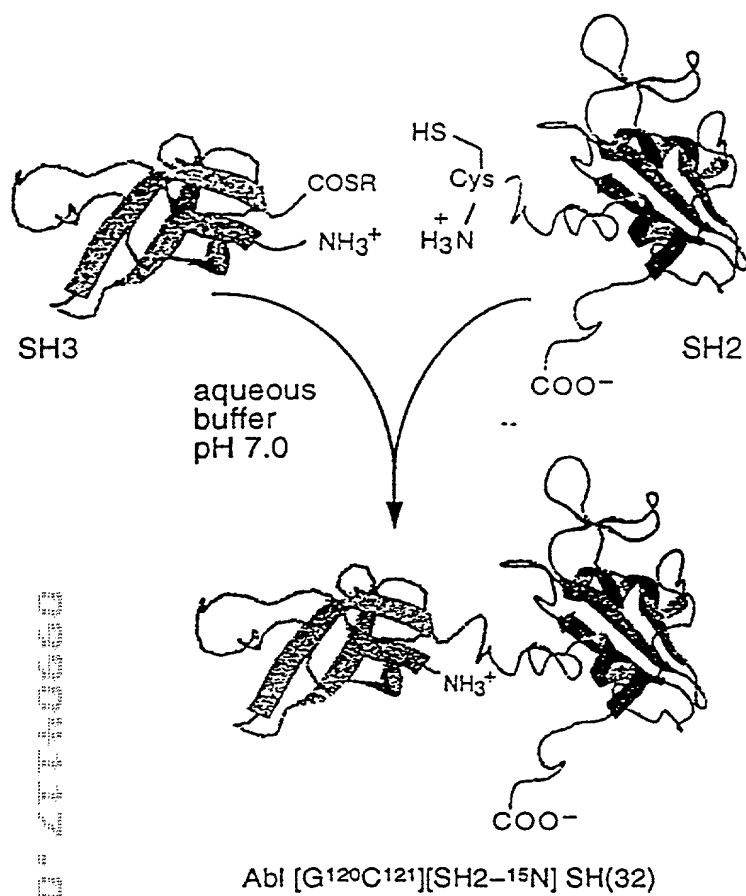
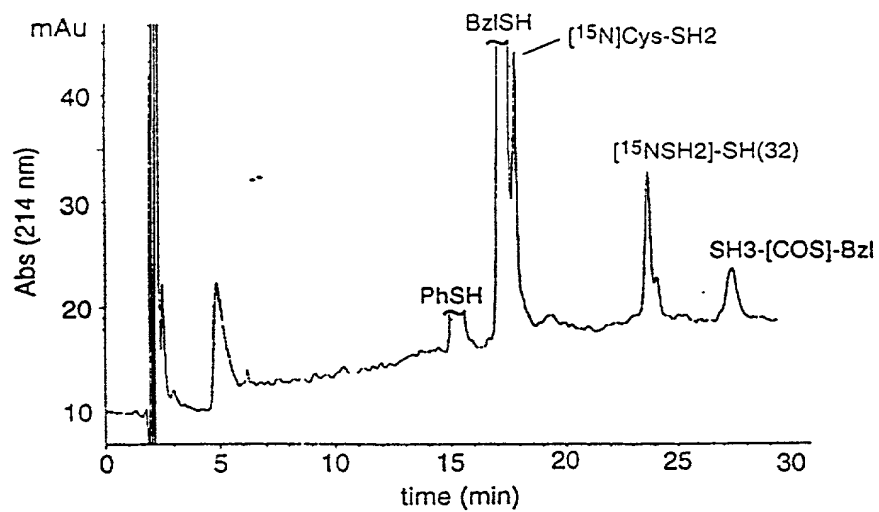


FIGURE 6
SHEET 9 OF 11

A



B

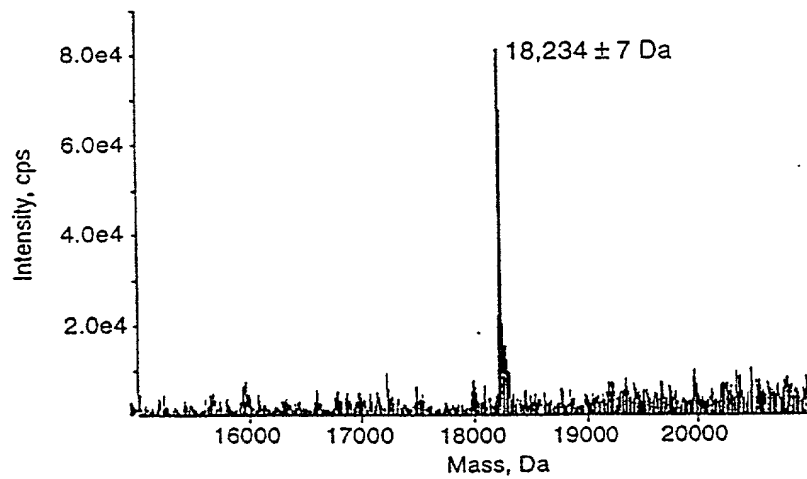


FIGURE 7
SHEET 10 OF 11

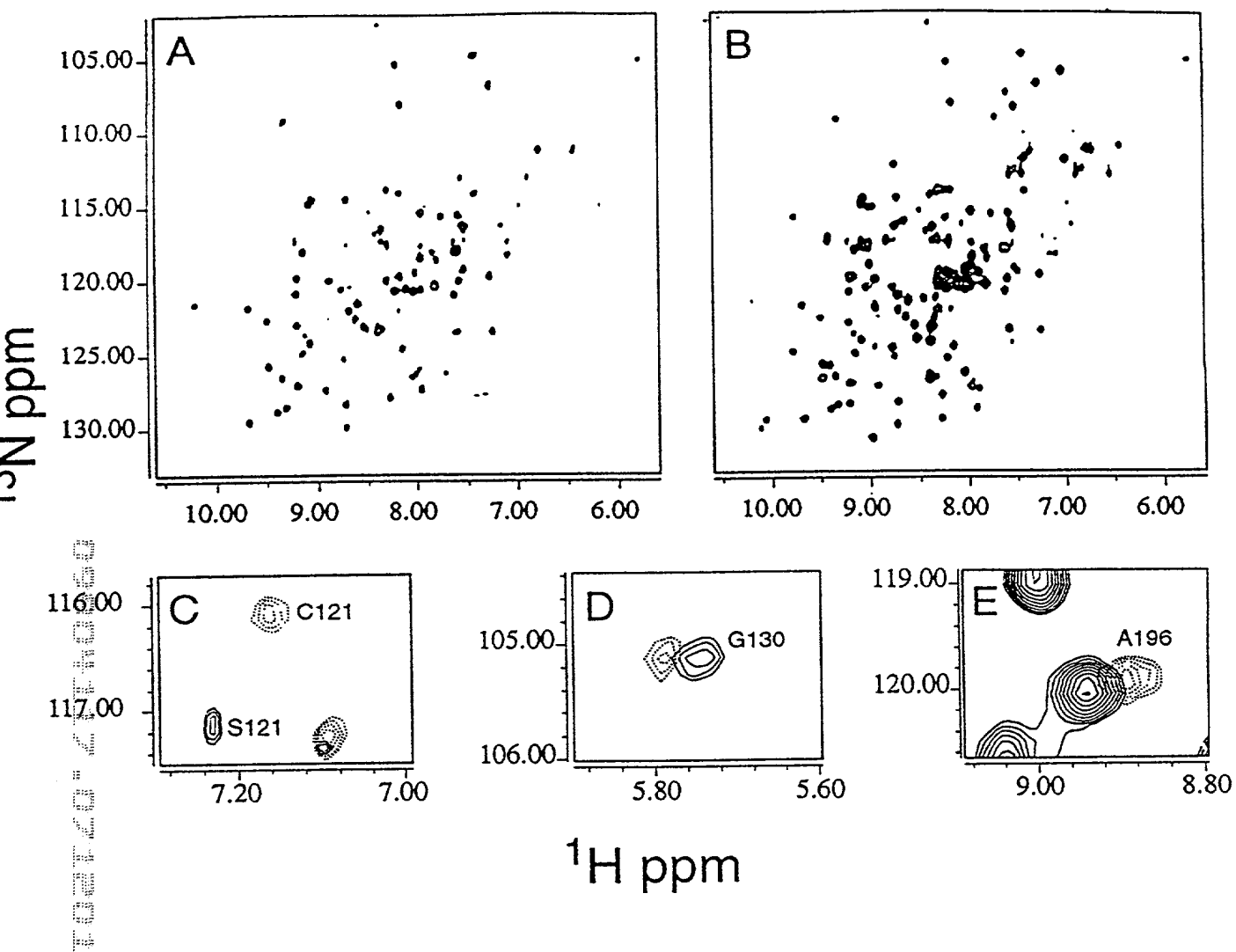


FIGURE 8
SHEET 11 OF 11